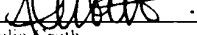




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Assistant Commissioner for Patents,  
Washington, D.C. 20231,  
On March 22, 2002

Quine Intellectual Property Law Group, P.C.

By   
Amelia Groth

Attorney Docket No. 407T-962900US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

TING, Kang, *et al.*

Application No.: 09/412,297

Filed: October 5, 1999

For: NELL-1 ENHANCED BONE  
MINERALIZATION

Examiner: V. Ford

Art Unit: 1645

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR § 1.97 and  
§ 1.98

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the  
attention of the Examiner. Copies of the references are enclosed. It is respectfully requested  
that the cited information be expressly considered during the prosecution of this application,  
and the references be made of record therein and appear among the "references cited" on any  
patent to issue therefrom.

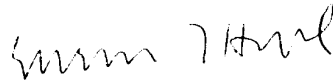
As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed after the mailing date of the first Office Action and more than three months after the filing date, but prior to the Notice of Allowance or Final Office Action.

Please deduct \$180.00, pursuant to 37 CFR §1.17(p), from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

This paper is submitted in duplicate.

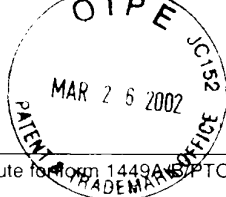
Respectfully submitted,



Susan T. Hubl  
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STH:ag



Substitute for Form 1449A, PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known	
	Application Number	09/412,297
	Filing Date	October 5, 1999
	First Named Inventor	TING, Kang
	Group Art Unit	1645
	Examiner Name	V. Ford
	Attorney Docket Number	407T-962900US
Date Submitted	March 22, 2002	

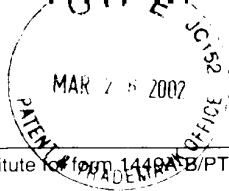
U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
		4,394,370		Jefferies	07-19-1983	
		4,409,332		Jefferies et al.	10-11-1983	
		5,385,887		Yim et al.	01-31-1995	
		5,674,725		Beertsen et al.	10-07-1997	
		5,763,416		Bonadio et al.	06-09-1998	
		5,854,207		Lee et al.	12-29-1998	
		5,916,870		Lee et al.	06-29-1999	
		5,942,496		Bonadio et al.	08-24-1999	
		5,948,428		Lee et al.	09-07-1999	

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T
		BECK et al. (1991) "Rapid Publication TGF-β <sub>1</sub> Induces Bone Closure of Skull Defects," <i>Bone Miner. Res.</i> 11:1257-1265.		
		CHEN et al. (1998) "Structure, Chromosomal Localization, and Expression Pattern of the Murine <i>Magg</i> Gene," <i>Biol Chem.</i> 268:27381-27389.		
		CRAWFORD et al. (1998) "Thrombospondin-1 is a Major Activator of TGF-β <sub>1</sub> in Vivo." <i>Cell</i> 93(7):1159-1170.		
		FRANCOIS AND BIER (1995) "Zenopus <i>chordin</i> and Drosophilia <i>short gastrulation</i> Genes Encode Homologous Proteins Functioning in Dorsal-Ventral Axis Formation." <i>Cell</i> 80(1):19-20		
		KIM et al. (1999) "NELL-1 Enhances Mineralization in Fetal Calvarial Osteoblastic Cells." <i>Surgical Forum</i> L:599-601.		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449A-B/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known	
	Application Number	09/412,297
	Filing Date	October 5, 1999
	First Named Inventor	TING, Kang
	Group Art Unit	1645
	Examiner Name	V. Ford
	Attorney Docket Number	407T-962900US
Date Submitted	March 22, 2002	

	KURODA AND TANIZAWA (1999) "Involvement of Epidermal Growth Factor-like Domain of NELL Proteins in the Novel Protein-Protein Interaction with Protein Kinase C <sup>1</sup> " <i>Biochem Biophys Res Commun</i> 265(3):752-757.	
	KURODA et al. (1999) "Biochemical Characterization and Expression Analysis of Neural Thrombospondin-1-like Proteins NELL1 and NELL 2" <i>Biochem Biophys Res Commun</i> 265(1):79-86.	
	LUCE AND BURROWS (1999) "The neuronal EGF-related genes <i>NELL1</i> and <i>NELL2</i> are expressed in hemopoietic cells and developmentally regulated in the B lineage" <i>Gene</i> 231:121-126.	
	PICCOLO et al. (1996) "Dorsoventral Patterning in Xenopus: Inhibition of Ventral Signals by Direct Binding of Chordin to BMP-4" <i>Cell</i> 86(4):589-498.	
6	TING et al. (1999) "Human NELL1 Expressed in Unilateral Coronal Synostosis" <i>J. Bone Mineral Res.</i> 14(1):80-89.	
	TING et al. (2000) "NELL-1 Enhances Mineralization in Fetal Calvarial Osteoblastic Cells." <i>J. Dent. Res.</i> 79:625.	
	TORIUMI et al. (1991) "Mandibular Reconstruction With a Recombinant Bone-Inducing Factor." <i>Arch. Otolaryngol. Head Neck Surg.</i> 117:1101-1112.	
	WATANABE et al. (1996) "Cloning and characterization of two novel human cDNAs ( <i>NELL1</i> and <i>NELL2</i> ) encoding proteins with six EGF-like repeats." <i>Genomics</i> 38(3):273-276	
	YASKO et al (1992) "The Healing of Segmental Bone Defects, Induced by Recombinant Human Bone Morphogenetic Protein (rhBMP-2)." 5:659-670.	

Examiner Signature		Date Considered	
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